
Zeitschrift für Physik A **Atomic Nuclei**

Editorial Board:

P. Armbruster, Darmstadt
W. Henning, Darmstadt
B. Herskind, Roskilde
F. Lenz, Erlangen
C. Ngô, Gif-sur-Yvette

D. Schwalm, Heidelberg
H.A. Weidenmüller, Heidelberg
W. Weise, Regensburg
P.K.A. de Witt Huberts, Amsterdam

Editor-in-Chief:

B. Povh, Heidelberg

Unter Mitwirkung der Deutschen Physikalischen Gesellschaft

Recognized by the European Physical Society



Volume 335 · 1990



Springer International

Founded in 1920. Edited with the collaboration of the Deutsche Physikalische Gesellschaft by K. Scheef and H. Geiger; Vols 124–141 (1947–1955) by M. v. Laue and R. W. Pohl; Vols 142–203 (1955–1967) by O. Haxel and H. Jensen; Vols 204–258 (1967–1973) by E. Fünfer, O. Haxel, H. Jensen, and G. Leibfried, from Vol. 259 by E. Fünfer, O. Haxel, G. Leibfried, and H. A. Weidenmüller. Vols 129–175 were produced with the collaboration of the Verband Deutscher Physikalischer Gesellschaften; from Vol. 176, the Deutsche Physikalische Gesellschaft. Published: Vols 1–4 (1921) Braunschweig, Fr. Vieweg & Sohn; Vol. 5 onwards, Berlin, Springer.

Starting with Vol. 272 (1975) *Zeitschrift für Physik* has been divided into two separate journals: *Zeitschrift für Physik A (Atoms and Nuclei)* and *Zeitschrift für Physik B (Condensed Matter and Quanta)*. The title *Zeitschrift für Physik B (Condensed Matter and Quanta)* has been changed to *Zeitschrift für Physik B (Condensed Matter)* from Vol. 38 (1980). In 1979 a third section was added: *Zeitschrift für Physik C (Particles and Fields)*. In 1986 *Zeitschrift für Physik D (Atoms, Molecules and Clusters)* was added and the title of *Zeitschrift für Physik A (Atoms and Nuclei)* changed to *Zeitschrift für Physik A (Atomic Nuclei)*.

Copyright Submission of a manuscript implies: that the work described has not been published before (except in the form of an abstract or as part of a published lecture, review, or thesis), that it is not under consideration for publication elsewhere; that its publication has been approved by all coauthors, if any, as well as by the responsible authorities at the institute where the work has been carried out; that, if and when the manuscript is accepted for publication, the authors agree to automatic transfer of the copyright to the publisher; and that the manuscript will not be published elsewhere in any language without the consent of the copyright holders.

All articles published in this journal are protected by copyright, which covers the exclusive rights to reproduce and distribute the article (e.g., as offprints), as well as all translation rights. No material published in this journal may be reproduced photographically or stored on microfilm, in electronic data bases, video disks, etc., without first obtaining written permission from the publisher.

The use of general descriptive names, trade names, trademarks, etc., in this publication, even if not specifically identified, does not imply that these names are not protected by the relevant laws and regulations.

While the advice and information in this journal is believed to be true and accurate at the date of its going to press, neither the authors, the editors, nor the publisher can accept legal responsibility for any errors or omissions that may be made. The publisher makes no warranty, express or implied, with respect to the material contained herein.

Special Regulations for Photocopies in the USA Photocopies may be made for personal or in-house use beyond the limitations stipulated under Section 107 or 108 of U.S. Copyright Law, provided a fee is paid. This fee is US \$0.20 per page, or a minimum of US \$1.00 if an article contains fewer than five pages. All fees should be paid to the Copyright Clearance Center, Inc., 21 Congress Street, Salem, MA 01970, USA, stating the ISSN 0930-1151, the volume, and first and last page numbers of each article copied. The copyright owner's consent does not include copying for general distribution, promotion, new works, or resale. In these cases, specific written permission must first be obtained from the publisher.

Springer-Verlag Berlin, Heidelberg, New York, Tokyo—Printers: Universitätsdruckerei H. Stürtz AG, D-8700 Würzburg—Printed in Germany
© Springer-Verlag Berlin, Heidelberg 1990—Springer-Verlag GmbH & Co. KG, D-1000 Berlin 33

Contents Volume 335 (1990)

- Adler, J.-O. → Nilsson, D. 239
Aiche, M. → Schulz, N. 107
Akovali, Y.A. → Beausang, C.W. 325
Akovali, Y.A. → Henry, E.A. 361
Alber, D., Bertschat, H.H., Grawe, H., Haas, H., Spillmeyer, B., Sun, X.: First In-Beam Observation of ^{97}Ag – The Three-Proton-Hole Spectrum in ^{100}Sn 265
Andersson, B.-E. → Nilsson, D. 239
Angelis, G. de → Bazzacco, D. 363
Anne, R. → Lewitowicz, M. 117
Arctadius, T., Bargholtz, Chr.: Nuclear Molecular Structure in Heavy Mass Systems 315
Artukh, A.G. → Lewitowicz, M. 117
Asghar, M. → Bocquet, J.P. 41
Avriganu, M., Ivaşcu, M., Avriganu, V.: Nuclear Level Densities Below 40 MeV Excitation Energy in the Mass Region $A \approx 50$ 299
Avriganu, V. → Avriganu, M. 299
Bai, J.J. → Wu, J. 125
Bao, J.D., Zhuo, Y.Z., Zhang, J.S.: The Realistic Calculation and Analyses of the Multi-dimensional Fission Width in the Quasi-Stationary Approximation 213
Barci, V. → Gizon, A. 115
Bargholtz, Chr. → Arctadius, T. 315
Barut, A.O., Božić, M.: Reflection, Transmission and Spin Rotation of Dirac Neutrinos in Magnetic Fields 459
Bastrukov, S.I., Maruhn, J.A.: Fluid-Dynamics of the Nuclear Surface Fermi-Layer 139
Basu, D.N. → Srivastava, D.K. 417
Bazin, D. → Lewitowicz, M. 117
Bazzacco, D., Lunardi, S., De Poli, G., Nardelli, M., Angelis, G. de: Yrast Structure of $^{139}\text{Sm}_{77}$: γ -Softness of the $^{140}\text{Sm}_{78}$ Core 363
Bazzacco, D. → Bizzeti-Sona, A.M. 365
Beausang, C.W., Henry, E.A., Becker, J.A., Roy, N., Yates, S.W., Deleplanque, M.A., Diamond, R.M., Stephens, F.S., Draper, J.E., Kelly, W.H., Burde, J., McDonald, R.J., Rubel, E., Brinkman, M.J., Cizewski, J.A., Akovali, Y.A.: Observation of Super-deformed Bands in ^{194}Hg 325
Beausang, C.W. → Henry, E.A. 361
Becker, J.A. → Beausang, C.W. 325
Becker, J.A. → Henry, E.A. 361
Beghini, S. → Corradi, L. 55
Belozyorov, A.V. → Lewitowicz, M. 117
Bertschat, H.H. → Alber, D. 265
Bhuloka Reddy, S. → Chandrasekhar Rao, M.V.S. 25
Bilpuch, E.G. → Bull, J.S. 31
Bilpuch, E.G. → Shriner, J.F. Jr. 393
Bizzeti-Sona, A.M., Blasi, P., Donvito, M., Stefanini, A.A., Bazzacco, D., Brandolini, F., Löwenich, K., Pavan, P., Rossi-Alvarez, C., De Poli, M., Haque, A.M.I.: The g Factor of the Lowest 7^+ State in ^{100}Rh and 6^- State in ^{104}Rh 365
Blasi, P. → Bizzeti-Sona, A.M. 365
Blomqvist, J. → McNeill, J.H. 241
Blomqvist, K.I. → Nilsson, D. 239
Bocquet, J.P., Brissot, R., Faust, H.R., Fowler, M., Wilhelmy, J., Asghar, M., Djebbara, M.: Characteristics of Mass and Nuclear Charge Distributions of $^{229}\text{Th}(n_{th}, f)$. Implications for Fission Dynamics 41
Bodenstedt, E. → Schäfer, Th. 387
Boer, J. de, Dasso, C.H., Pollaro, G.: Calculations for Diabolic Pair-Transfer Below the Coulomb Barrier 199
Božić, M. → Barut, A.O. 459
Brandolini, F. → Bizzeti-Sona, A.M. 365
Briancón, Ch. → Schulz, N. 107
Bricault, P. → Lewitowicz, M. 117
Brinkman, M.J. → Beausang, C.W. 325
Brinkman, M.J. → Henry, E.A. 361
Brissot, R. → Bocquet, J.P. 41
Brown, G.E. → Zahed, I. 349
Brüchle, W. → Scherer, U.W. 421

- Brückner, W., Cujec, B., Döbbling, H., Dworschak, K., Güttner, F., Kneis, H., Majewski, S., Nomachi, M., Paul, S., Povh, B., Ransome, R.D., Shibata, T.-A., Treichel, M., Walcher, Th.: Measurements of the Antiproton-Proton Annihilation Cross-Section in the Beam Momentum Range between 180 and 600 MeV/c 217
- Brügger, M. → Scherer, U.W. 421
- Bucurescu, D. → Cata, G. 271
- Bull, J.S., Bilpuch, E.G., Mitchell, G.E., Shriner, J.F. Jr., Westerfeldt, C.R.: Entrance Channel Correlations for 2^+ Resonances in $p+^{39}\text{K}$ 31
- Burde, J. → Beausang, C.W. 325
- Burde, J. → Henry, E.A. 361
- Cata, G., Bucurescu, D., Cutoiu, D., Ivaşcu, M., Zamfir, N.V.: Effective Boson Number Calculations in Mo and Cd Isotopes 271
- Cavinato, M., Marangoni, M., Saruis, A.M.: $^{12}\text{C}(e, e'p)$ Missing Momentum Distributions in HF-Sk3 and RPA-Sk3 Continuum Theories 401
- Chambon, B. → Cheynis, B. 77
- Chandrasekhar Rao, M.V.S., Sree Krishna Murty, G., Radha Krishna, K., Bhuloka Reddy, S., Satyanarayana, G., Raghavaiah, C.V., Sastry, D.L., Chintalapudi, S.N.: Electron Capture Probabilities in ^{105}Ag 25
- Chauvin, J. → Lebrun, D. 73
- Chevallier, A. → Schulz, N. 107
- Chevallier, J. → Schulz, N. 107
- Cheynis, B., Chambon, B., Drain, D., Pastor, C., Heuer, D., Dauchy, A., Giorni, A., Morand, C., Stassi, P.: Evidence for an Absorption Effect in Neutron Emission in the $^{20}\text{Ne}+^{58}\text{Ni}$ Reaction at 30 MeV per Nucleon 77
- Chintalapudi, S.N. → Chandrasekhar Rao, M.V.S. 25
- Chishti, A.A. → McNeill, J.H. 241
- Chlebowska, D.: Influence of the Pairing Parameter Rotation Dependence on Signature Splitting in Odd-A Nuclei 247
- Civitarese, O., Licciardo, M.C.: Structure of Symmetry Restoring Interactions: A Modified BCS plus Rotational Approach for a Schematic Model Space 279
- Cizewski, J.A. → Beausang, C.W. 325
- Cizewski, J.A. → Henry, E.A. 361
- Corradi, L., Skorka, S.J., Lenz, U., Löbner, K.E.G., Pascholati, P.R., Quade, U., Rudolph, K., Schomburg, W., Steinmayer, M., Thies, H.G., Montagnoli, G., Napoli, D.R., Stefanini, A.M., Tivelli, A., Beghini, S., Scarlassara, F., Signorini, C., Soramel, F.: Near-Barrier Transfer and Fusion of the Systems $^{33}\text{S}+^{90,91,92}\text{Zr}$ 55
- Cujec, B. → Brückner, W. 217
- Cusson, R.Y. → Wu, J. 125
- Cutoiu, D. → Cata, G. 271
- Daly, P.J. → McNeill, J.H. 241
- Dang, N.D.: Influence of Particle Number Fluctuations and Vibrational Modes on Thermodynamic Characteristics of a Hot Nucleus 253
- Daniel, H. → Egidy, T. von 451
- Dasso, C.H. → Boer, J. de 199
- Dauchy, A. → Cheynis, B. 77
- David, P. → Hänscheid, H. 1
- De Poli, M. → Bazzacco, D. 363
- De Poli, M. → Bizzeti-Sona, A.M. 365
- Debray, M.E. → Schulz, N. 107
- Degtyarenko, P.V., Efremenko, Yu.V., Gavrilov, V.B., Leksin, G.A., Semenova, N.L.: Inelastic Electron-Nucleus Interactions at 5 GeV Detected by ARGUS 231
- Deleplanque, M.A. → Beausang, C.W. 325
- Deleplanque, M.A. → Henry, E.A. 361
- Détraz, C. → Lewitowicz, M. 117
- Diamond, R.M. → Beausang, C.W. 325
- Diamond, R.M. → Henry, E.A. 361
- Djebara, M. → Bocquet, J.P. 41
- Döbbling, H. → Brückner, W. 217
- Dolidze, M.G., Lykasov, G.I.: Interaction of Relativistic Deuterons with Nucleons 95
- Domogala, G. → Leifels, Y. 183
- Donvito, M. → Bizzeti-Sona, A.M. 365
- Drain, D. → Cheynis, B. 77
- Draper, J.E. → Beausang, C.W. 325
- Draper, J.E. → Henry, E.A. 361
- Dworschak, K. → Brückner, W. 217
- Ecker, R. → Müller, L. 9
- Efremenko, Yu.V. → Degtyarenko, P.V. 231
- Egidy, T. von, Daniel, H., Hartmann, F.J., Kanert, W., Moser, E.F., Golubeva, Ye.S., Iljinov, A.S., Reidy, J.J.: Yield of Residual Nuclei after Antiproton Annihilation in Ba 451
- Eid, E. → Stewart, N.M. 13
- El-Daghmah, M.S.S. → Stewart, N.M. 13
- El-Samman, H. → Gizon, A. 115
- Emling, H. → Lubkiewicz, E. 369
- Ender, Ch. → Lubkiewicz, E. 369
- Endt, P.M. → Shriner, J.F. Jr. 393
- Espino, J. → Komatsubara, T. 113
- Eule, R.P. → Leifels, Y. 183
- Faust, H.R. → Bocquet, J.P. 41
- Fowler, M. → Bocquet, J.P. 41
- Frankfurt, L.L. → Sargsyan, M.M. 431
- Freiesleben, H. → Leifels, Y. 183
- Friese, J. → Müller, L. 9
- Frink, C. → Scherer, U.W. 421
- Fujiwara, H. → Ogihara, M. 203
- Furuno, K. → Komatsubara, T. 113
- Gäggeler, H. → Scherer, U.W. 421
- Galster, W. → Ogihara, M. 203
- Gascon, J. → Komatsubara, T. 113
- Gavrilov, V.B. → Degtyarenko, P.V. 231
- Gelletly, W. → McNeill, J.H. 241
- Genz, H., Martinis, M., Tatur, S.: Something, but not much Follows from the Quark Line Rule in Nucleon-Antinucleon Annihilations 87
- Gerl, J. → Lubkiewicz, E. 369
- Gils, H.J. → Srivastava, D.K. 417
- Giorni, A. → Cheynis, B. 77
- Gizon, A., Barci, V., El-Samman, H., Gizon, J., Nyako, B.M., Weiss, B., Zolnai, L.: Rotational Bands in Doubly-Odd ^{124}Cs and Residual Proton-Neutron Interaction 115
- Gizon, J. → Gizon, A. 115
- Golubeva, Ye.S. → Egidy, T. von 451
- Gong, M., Tohyama, M.: Application of a Time-Dependent Density-Matrix Formalism. I. Small-Amplitude Collective Motions 153
- Gong, M., Tohyama, M., Randrup, J.: Time-Dependent Density-Matrix Theory. II. Mass Dispersion in Damped Nuclear Reactions 331
- Grabež, B.: Angular Distribution of Multi-fragmentation Products from Interaction of 48 GeV ^4He with Ag 111
- Grawe, H. → Alber, D. 265
- Grein, H. → Lubkiewicz, E. 369
- Guillemaud-Mueller, D. → Lewitowicz, M. 117
- Güttner, F. → Brückner, W. 217
- Haas, H. → Alber, D. 265
- Habs, D. → Lubkiewicz, E. 369
- Hagemann, G.B. → Komatsubara, T. 113
- Haider, Q., Liu, L.C.: Dynamics of Pion Double-Charge-Exchange Reactions 437
- Hänscheid, H., David, P., Konijn, J., Krogulski, T., Laat, C.T.A.M. de, Mayer-Kuckuk, T., Petitjean, C., Polikanov, S.M., Reist, H.W., Risse, F., Rösel, Ch., Schaller, L.A., Schellenberg, L., Schrieder, W., Sinha, A.K., Taal, A.: Muon Capture Rates in ^{233}U , ^{234}U , ^{235}U , ^{238}U , and ^{23}Np 1
- Haque, A.M.I. → Bizzeti-Sona, A.M. 365
- Harney, H.L., Hüpper, A., Mayer, M., Müller, A.: The Statistical Theory of Nuclear Reactions in the Limit of Isolated Resonances II 293
- Hartmann, F.J. → Egidy, T. von 451
- Heiss, W.D., Kotzé, A.A.: A One Dimensional Model for Quantum Chaos 131
- Helene, O.A.M. → Isaac, M.C.P. 243
- Henry, E.A., Brinkman, M.J., Beausang, C.W., Becker, J.A., Roy, N., Yates, S.W., Cizewski, J.A., Diamond, R.M., Deleplanque, M.A., Stephens, F.S., Draper, J.E., Kelly, W.H., McDonald, R.J., Burde, J., Kuhnert, A., Korten, W., Rubel, E., Akovalli, Y.A.: Superdeformed Bands in ^{193}Hg and ^{194}Hg 361
- Henry, E.A. → Beausang, C.W. 325
- Herrmann, G. → Scherer, U.W. 421
- Heuer, D. → Cheynis, B. 77
- Heyer, G., Manakos, P., Mannel, T., Ohl, T.: Bounds on the Coupling Parameters for Vector Mesons in the Relativistic Random Phase Approximation 471
- Hosoda, T. → Komatsubara, T. 113
- Hotchkis, M.A.C. → McNeill, J.H. 241
- Hüpper, A. → Harney, H.L. 293
- Huyse, M. → Trzaska, W.H. 475
- Ideno, K. → Ogihara, M. 203
- Ikezoe, H. → Ogihara, M. 203
- Iljinov, A.S. → Egidy, T. von 451
- Isaac, M.C.P., Vanin, V.R., Helene, O.A.M.: The Internal Bremsstrahlung Following the Electron Capture Decay of ^{55}Fe 243
- Isaksson, L. → Nilsson, D. 239
- Islam, M.A., Kennett, T.J., Prestwich, W.V.: A Study of the $^{127}\text{I}(n, \gamma)^{128}\text{I}$ Reaction 173
- Ivaşcu, M. → Avrigeanu, M. 299
- Ivaşcu, M. → Cata, G. 271
- Iwata, Y. → Komatsubara, T. 113
- Jabber, J.K. → Stewart, N.M. 13

- Jacmart, J.C. → Lewitowicz, M. 117
 Jeong, S.C. → Ogihara, M. 203
 Jerrestam, D. → Komatsubara, T. 113
 Julien, J. → Lebrun, D. 73
 Julin, R. → Kumpulainen, J. 109
 Julin, R. → Trzaska, W.H. 475
 Kalka, H., Torjman, M., Lien, H.N., Lopez, R., Seeliger, D.: Description of (n, p) - and $(n, 2n)$ -Activation Cross Sections for Medium-Mass Nuclei within Statistical Multistep Theory 163
 Kanert, W. → Egidy, T. von 451
 Kantele, J. → Kumpulainen, J. 109
 Kantele, J. → Trzaska, W.H. 475
 Kashy, E. → Lewitowicz, M. 117
 Kato, N. → Komatsubara, T. 113
 Kawase, Y. → Tago, I. 477
 Kelly, W.H. → Beausang, C.W. 325
 Kelly, W.H. → Henry, E.A. 361
 Kennett, T.J. → Islam, M.A. 173
 Klosowski, P. → Szpikowski, S. 289
 Kneis, H. → Brückner, W. 217
 Kolomietz, V.M., Kondratjev, V.N.: Nuclear Gamma-Transitions via the Accompanying Atomic Excitations 379
 Komatsubara, T., Furuno, K., Hosoda, T., Espino, J., Gascon, J., Hagemann, G.B., Iwata, Y., Jerrestam, D., Kato, N., Morikawa, T., Nyberg, J., Sletten, G., Tjøm, P.O.: High Spin Structure in the Odd-Odd Nucleus ^{124}Cs 113
 Kondratjev, V.N. → Kolomietz, V.M. 379
 Konijn, J. → Hänscheid, H. 1
 Körner, H.J. → Müller, L. 9
 Korten, W. → Henry, E.A. 361
 Kotzé, A.A. → Heiss, W.D. 131
 Kratz, J.V. → Scherer, U.W. 421
 Kreiner, A.J. → Schulz, N. 107
 Krogulski, T. → Hänscheid, H. 1
 Kuhnert, A. → Henry, E.A. 361
 Kulesa, R. → Lubkiewicz, E. 369
 Kumpulainen, J., Julin, R., Kantele, J., Passoja, A., Trzaska, W.H., Verho, E., Väärämäki, J.: New Features in Systematics of Low-spin States in Even $^{106-120}\text{Cd}$ 109
 Kumpulainen, J. → Trzaska, W.H. 475
 Laati, C.T.A.M. de → Hänscheid, H. 1
 Latimier, A. → Lewitowicz, M. 117
 Lazić, D.L., Todorović, Ž.: Cross Sections for Interactions of 8.8 GeV α Particles with Ag, Au, Bi and Th 101
 LeBrun, C. → Lebrun, D. 73
 Lebrun, D., Chauvin, J., Julien, J., LeBrun, C., Lecolley, J.F., Perrin, G., Rebreyend, D., Saintignon, P. de: π^- Production in $^{16}\text{O} + ^{27}\text{Al}$ at 38, 65 and 93 MeV/u 73
 Lecolley, J.F. → Lebrun, D. 73
 Lee, S.M. → Ogihara, M. 203
 Leifels, Y., Domogala, G., Eule, R.P., Freiesleben, H.: Application of the Statistical Model to the Light Heavy-Ion System $^6\text{Li} + ^6\text{Li}$ 183
 Leksins, G.A. → Degtyarenko, P.V. 231
 Lenz, U. → Corradi, L. 55
 Lewitowicz, M., Anne, R., Artukh, A.G., Bazin, D., Belozyorov, A.V., Bricault, P., Détraz, C., Guillemaud-Mueller, D., Jacmart, J.C., Kashy, E., Latimier, A., Lukyanov, S.M., Mueller, A.C., Penionzhkevich, Yu.E., Pougheon, F., Richard, A., Schmidt-Ott, W.D., Zhang, Y.: First Observation of the Neutron-Rich Nuclei ^{42}Si , $^{45,46}\text{P}$, ^{48}S , and ^{51}Cl from the Interaction of 44 MeV/u $^{48}\text{Ca} + ^{64}\text{Ni}$ 117
 Licciardo, M.C. → Civitarese, O. 279
 Lien, H.N. → Kalka, H. 163
 Liu, L.C. → Haider, Q. 437
 Löbner, K.E.G. → Corradi, L. 55
 Lopez, R. → Kalka, H. 163
 Löwenich, K. → Bizzeti-Sona, A.M. 365
 Lubkiewicz, E., Emling, H., Grein, H., Kulesa, R., Simon, R.S., Wollersheim, H.J., Ender, Ch., Gerl, J., Habs, D., Schwalm, D.: Measurement of g -Factors in ^{160}Yb by a γ - γ Coincidence Technique 369
 Lukyanov, S.M. → Lewitowicz, M. 117
 Lunardi, S. → Bazzacco, D. 363
 Lykasov, G.I. → Dolidze, M.G. 95
 Mädler, P., Reif, R., Tillack, G.-R.: Correlations between Preequilibrium Particles and Fission Fragments? 473
 Majewski, S. → Brückner, W. 217
 Manakos, P. → Heyer, G. 471
 Manakos, P. → Mannel, T. 341
 Mannel, T., Ohl, T., Manakos, P.: Bounds on the Coupling Parameters in Field Theoretical Models of Nuclear Physics 341
 Mannel, T. → Heyer, G. 471
 Marangoni, M. → Cavinato, M. 401
 Martinis, M. → Genz, H. 87
 Maruhn, J.A. → Bastrukov, S.I. 139
 Mayer, M. → Harney, H.L. 293
 Mayer-Kuckuk, T. → Hänscheid, H. 1
 McDonald, R.J. → Beausang, C.W. 325
 McDonald, R.J. → Henry, E.A. 361
 McNeill, J.H., Blomqvist, J., Chishti, A.A., Daly, P.J., Gelletly, W., Hotchkis, M.A.C., Piiparinen, M., Varley, B.J., Woods, P.J.: A 35 μs Isomer in the Exotic $N=83$ Nucleus $^{154}\text{-Lu}$ 241
 Mikumo, T. → Ogihara, M. 203
 Mitchell, G.E. → Bull, J.S. 31
 Mitchell, G.E. → Shriner, J.F. Jr. 393
 Montagnoli, G. → Corradi, L. 55
 Moody, K.J. → Scherer, U.W. 421
 Morand, C. → Cheynis, B. 77
 Morikawa, T. → Komatsubara, T. 113
 Moser, E.F. → Egidy, T. von 451
 Mueller, A.C. → Lewitowicz, M. 117
 Müller, A. → Harney, H.L. 293
 Müller, L., Ecker, R., Friese, J., Körner, H.J., Rosner, G., Zeitelhack, K.: Influence of Nuclear Deformation on the Correlation of Protons Emitted from Compound Nuclei 9
 Nagashima, Y. → Ogihara, M. 203
 Napoli, D.R. → Corradi, L. 55
 Nardelli, G. → Bazzacco, D. 363
 Nesterenko, V.O.: On the Coupling Between Multiphonon Configurations in Deformed Nuclei 147
 Nilsson, D., Adler, J.-O., Andersson, B.-E., Blomqvist, K.L., Isaksson, L., Sandell, A., Schröder, B., Ziakas, K., Van Hoorebeke, L., Ryckbosch, D., Van de Vyver, R.: Iso-spin Selection Rules for Real Photons Observed in the $^6\text{Li}(\gamma, d)$ Reaction 239
 Nomachi, M. → Brückner, W. 217
 Nyako, B.M. → Gizon, A. 115
 Nyberg, J. → Komatsubara, T. 113
 Ogihara, M., Fujiwara, H., Jeong, S.C., Galster, W., Lee, S.M., Nagashima, Y., Mikumo, T., Ikezoe, H., Ideno, K., Sugiyama, Y., Tomita, Y.: The Effect of Angular Momentum Coupling on the Angular Distribution of Fission Fragments 203
 Ohl, T. → Heyer, G. 471
 Ohl, T. → Mannel, T. 341
 Okana, K. → Tago, I. 477
 Pascholati, P.R. → Corradi, L. 55
 Passoja, A. → Kumpulainen, J. 109
 Pastor, C. → Cheynis, B. 77
 Paul, S. → Brückner, W. 217
 Pavan, P. → Bizzeti-Sona, A.M. 365
 Penionzhkevich, Yu.E. → Lewitowicz, M. 117
 Perrin, G. → Lebrun, D. 73
 Petitjean, C. → Hänscheid, H. 1
 Pham, D.L., Swiniarski, R. de: Evidence for a Real Tensor Potential in the Inelastic Scattering of 800 MeV Polarized Protons from ^{20}Ne Using the Dirac Phenomenology 37
 Physics and Astronomy Classification Scheme (PACS)119Piiparinen, M. → McNeill, J.H. 241
 Polikanov, S.M. → Hänscheid, H. 1
 Pollaro, G. → Boer, J. de 199
 Poth, H. → Wycech, S. 355
 Pougheon, F. → Lewitowicz, M. 117
 Povh, B. → Brückner, W. 217
 Prestwich, W.V. → Islam, M.A. 173
 Próchniak, L. → Szpikowski, S. 289
 Quade, U. → Corradi, L. 55
 Radha Krishna, K. → Chandrasekhar Rao, M.V.S. 25
 Raghavaiah, C.V. → Chandrasekhar Rao, M.V.S. 25
 Randrup, J. → Gong, M. 331
 Ransome, R.D. → Brückner, W. 217
 Rebel, H. → Srivastava, D.K. 417
 Rebreyend, D. → Lebrun, D. 73
 Reidy, J.J. → Egidy, T. von 451
 Reif, R. → Mädler, P. 473
 Reist, H.W. → Hänscheid, H. 1
 Richard, A. → Lewitowicz, M. 117
 Risse, F. → Hänscheid, H. 1
 Rook, J.R. → Wycech, S. 355
 Rösel, Ch. → Hänscheid, H. 1
 Rosner, G. → Müller, L. 9
 Rossi-Alvarez, C. → Bizzeti-Sona, A.M. 365
 Roy, N. → Beausang, C.W. 325
 Roy, N. → Henry, E.A. 361
 Rubel, E. → Henry, E.A. 361
 Rubel, E. → Beausang, C.W. 325
 Ruchowska, E. → Schulz, N. 107
 Rudolph, K. → Corradi, L. 55
 Ryckbosch, D. → Nilsson, D. 239
 Saintignon, P. de → Lebrun, D. 73
 Sandell, A. → Nilsson, D. 239
 Sargsyan, M.M., Frankfurt, L.L., Strikman, M.I.: On the Extraction of Elastic Neutron

- Electromagnetic Form Factors from High $Q^2 D(e, e')$ Scattering 431
- Saruis, A.M. → Cavinato, M. 401
- Sastry, D.L. → Chandrasekhar Rao, M.V.S. 25
- Satyanarayana, G. → Chandrasekhar Rao, M.V.S. 25
- Scarlassara, F. → Corradi, L. 55
- Schellenberg, L. → Hänscheid, H. 1
- Scherer, U.W., Brühl, W., Brügger, M., Frink, C., Gäggeler, H., Herrmann, G., Kratz, J.V., Moody, K.J., Schädel, M., Sümmerer, K., Trautmann, N., Wirth, G.: Reactions of ^{40}Ar with ^{233}U , ^{235}U , and ^{238}U at the Barrier 421
- Schmidt-Ott, W.D. → Lewitowicz, M. 117
- Schmitt, R.P., Srivastava, B.K.: Defining a Reaction Plane in Particle-Fission Correlation Measurements 49
- Schomburg, W. → Corradi, L. 55
- Schrieder, W. → Hänscheid, H. 1
- Schröder, B. → Nilsson, D. 239
- Schulz, N., Vanin, V.R., Aiche, M., Briançon, Ch., Chevallier, A., Chevallier, J., Debray, M.E., Kreiner, A.J., Ruchowska, E., Sens, J.C.: Observation of Parity Doublets in the Odd-Odd Nucleus ^{220}Ac 107
- Schwalm, D. → Lubkiewicz, E. 369
- Seeliger, D. → Kalka, H. 163
- Semenova, N.L. → Degtyarenko, P.V. 231
- Sens, J.C. → Schulz, N. 107
- Shibata, T.-A. → Brückner, W. 217
- Shriner, J.F. Jr., Bilpuch, E.G., Endt, P.M., Mitchell, G.E.: Fluctuation Properties of States in ^{26}Al 393
- Shriner, J.F. Jr. → Bull, J.S. 31
- Signorini, C. → Corradi, L. 55
- Simon, R.S. → Lubkiewicz, E. 369
- Sinha, A.K. → Hänscheid, H. 1
- Skorka, S.J. → Corradi, L. 55
- Sletten, G. → Komatsubara, T. 113
- Soramel, F. → Corradi, L. 55
- Spellmeyer, B. → Alber, D. 265
- Sree Krishna Murty, G. → Chandrasekhar Rao, M.V.S. 25
- Srivastava, B.K. → Schmitt, R.P. 49
- Srivastava, D.K., Basu, D.N., Rebel, H., Gils, H.J.: Orbital Dispersion and Wavefunction Mapping in Inclusive Break-Up Experiments 417
- Stassi, P. → Cheynis, B. 77
- Stefanini, A.A. → Bizzeti-Sona, A.M. 365
- Stefanini, A.M. → Corradi, L. 55
- Steinmayer, M. → Corradi, L. 55
- Stephens, F.S. → Beausang, C.W. 325
- Stephens, F.S. → Henry, E.A. 361
- Stewart, N.M., Eid, E., El-Daghmah, M.S.S., Jabber, J.K.: Levels in ^{152}Gd and ^{152}Sm Populated by the Decay of ^{152}Eu 13
- Strikman, M.I. → Sargsyan, M.M. 431
- Sugiyama, Y. → Ogihara, M. 203
- Sümmerer, K. → Scherer, U.W. 421
- Sun, X. → Alber, D. 265
- Swinarski, R. de → Pham, D.L. 37
- Szpikowski, S., Klosowski, P., Próchniak, L.: Supersymmetry and Electromagnetic $E2$ Transitions 289
- Taal, A. → Hänscheid, H. 1
- Tago, I., Kawase, Y., Okano, K.: Identification of ^{152}Ce 477
- Tatur, S. → Genz, H. 87
- Thies, H.G. → Corradi, L. 55
- Tillack, G.-R. → Mädler, P. 473
- Tivelli, A. → Corradi, L. 55
- Tjøm, P.O. → Komatsubara, T. 113
- Todorović, Ž. → Lazić, D.L. 101
- Tohyama, M.: Landau's Collision Term in Time-Dependent Density Matrix Formalism 413
- Tohyama, M. → Gong, M. 153
- Tohyama, M. → Gong, M. 331
- Tomita, Y. → Ogihara, M. 203
- Torjman, M. → Kalka, H. 163
- Trautmann, N. → Scherer, U.W. 421
- Treichel, M. → Brückner, W. 217
- Trzaska, W.H., Kantele, J., Julin, R., Kumpulainen, J., Van Duppen, P., Huyse, M., Wauters, J.: Comparison of Experimental and Calculated K/L Ratios of $E0$ Transitions in Some Heavy Nuclei 475
- Trzaska, W.H. → Kumpulainen, J. 109
- Väärämäki, J. → Kumpulainen, J. 109
- Van de Vyver, R. → Nilsson, D. 239
- Van Duppen, P. → Trzaska, W.H. 475
- Van Hoorebeke, L. → Nilsson, D. 239
- Vanin, V.R. → Isaac, M.C.P. 243
- Vanin, V.R. → Schulz, N. 107
- Varley, B.J. → McNeill, J.H. 241
- Verho, E. → Kumpulainen, J. 109
- Vianden, R. → Schäfer, Th. 387
- Walcher, Th. → Brückner, W. 217
- Wauters, J. → Trzaska, W.H. 475
- Weiss, B. → Gizon, A. 115
- Westerfeldt, C.R. → Bull, J.S. 31
- Wilhelmy, J. → Bocquet, J.P. 41
- Wirth, G. → Scherer, U.W. 421
- Wollersheim, H.J. → Lubkiewicz, E. 369
- Woods, P.J. → McNeill, J.H. 241
- Wu, J., Bai, J.J., Cusson, R.Y.: Numerical Method for the Time Evolution of the Dirac Equation 125
- Wycech, S., Poth, H., Rook, J.R.: On the Fine-Structure Splitting in \bar{p} Atoms 355
- Yates, S.W. → Beausang, C.W. 325
- Yates, S.W. → Henry, E.A. 361
- Zahed, I., Brown, G.E.: A Nonperturbative Description of $N\bar{N}$ Annihilation 349
- Zamfir, N.V. → Cata, G. 271
- Zeitelhack, K. → Müller, L. 9
- Zhang, J.S. → Bao, J.D. 213
- Zhang, Y. → Lewitowicz, M. 117
- Zhuo, Y.Z. → Bao, J.D. 213
- Ziakas, K. → Nilsson, D. 239
- Zolnai, L. → Gizon, A. 115

Indexed in *Current Contents*
Evaluated and abstracted
for PHYS on STN